

The following Listing of the Claims will replace all prior versions and all prior listings of the claims in the present application:

Listing of The Claims:

1. (Previously presented) A composition comprising an antigen bearing target and further comprising a fusion polypeptide, said fusion polypeptide comprising

a first amino acid sequence which can bind to a carbohydrate

and

a second amino acid sequence comprising the amino acid sequence of a ligand for a cell surface polypeptide, said ligand being chosen from the group: a ligand for a cytokine receptor, a ligand for CD40, a ligand for an adhesion molecule, a ligand for a defensin receptor, a ligand for a heat shock protein receptor, a ligand for a T cell costimulatory molecule, a ligand for a counterreceptor for a T cell costimulatory molecule;

wherein said antigen bearing target comprises at least one of the following: a viral antigen, a bacterial antigen, a fungal antigen, a parasite antigen, a prion antigen.
2. (Original) The composition of claim 1, wherein said antigen bearing target is chosen from the group: a virus, a bacterial cell, a fungal cell, a cell of a parasite, a prion, a mammalian cell, an insect cell, a polypeptide free of other cell-derived material.
3. (Original) The composition of claim 2, wherein said antigen bearing target is pathogenic.
4. (Original) The composition of claim 2, wherein said antigen bearing target is attenuated.
5. (Original) The composition of claim 1, wherein said antigen bearing target is a cell which is substantially unable to divide.
6. (Original) The composition of claim 2, wherein said antigen bearing target is a cell and said fusion polypeptide is exogenous to said cell.

7. (Original) The composition of claim 2, wherein said antigen bearing target is a cell and said fusion polypeptide is endogenous to said cell and is encoded by a nucleic acid sequence comprised by the cell.
8. (Original) The composition of claim 1, wherein said first amino acid sequence is N-terminal to said second amino acid sequence.
9. (Original) The composition of claim 1, wherein said first amino acid sequence is C-terminal to said second amino acid sequence.
10. (Original) The composition of claim 1, wherein said first amino acid sequence can bind to a sialic acid on a glycoprotein, said sialic acid comprising at least one of the following carbohydrate structures: N-acetylneuraminic acid, alpha-NeuNAc-[2->6]-Gal, alpha-NeuNAc-[2->6]-GalNAc, alpha-NeuNAc-[2->3]-Gal.
11. (Original) The composition of claim 1, wherein said first amino acid sequence comprises a carbohydrate-binding domain of a naturally occurring lectin.
12. (Previously presented) The composition of claim 1, wherein said first amino acid sequence comprises at least 10 contiguous amino acids of a hemagglutinin.
13. (Original) The composition of claim 12, wherein said hemagglutinin is an influenza virus hemagglutinin.
14. (Original) The composition of claim 13, wherein said contiguous amino acids of an influenza hemagglutinin are contiguous amino acids of an influenza hemagglutinin HA1 domain.
15. (Original) The composition of claim 13, wherein said influenza virus is an influenza A virus.
16. (Original) The composition of claim 15, wherein said influenza virus is of a subtype that infects humans.

17. (Original) The composition of claim 15, wherein said influenza virus is of an H1 subtype.
18. (Original) The composition of claim 17, wherein said influenza virus is from the strain A/PR/8/34.
19. (Original) The composition of claim 18, wherein said influenza virus is of an H2 or H3 subtype.
20. (Original) The composition of claim 13, wherein said influenza virus is of a subtype that does not infect humans.
21. (Original) The composition of claim 1, wherein said ligand for a cell surface polypeptide is a ligand for a mammalian cell surface polypeptide.
22. (Original) The composition of claim 21, wherein said ligand for a cell surface polypeptide is a ligand for a mouse cell surface polypeptide.
23. (Original) The composition of claim 21, wherein said ligand for a cell surface polypeptide is a ligand for a human cell surface polypeptide.
24. (Original) The composition of claim 1, wherein said ligand for a cell surface polypeptide is a ligand for a cell surface polypeptide of a leukocyte.
25. (Original) The composition of claim 1, wherein said ligand for a cell surface polypeptide is a ligand for a cell surface polypeptide of an antigen presenting cell.
26. (Original) The composition of claim 25, wherein said ligand for a cell surface polypeptide is a ligand for a cell surface polypeptide of a professional antigen presenting cell.
27. (Original) The composition of claim 24, wherein said ligand for a cell surface polypeptide is a ligand for a cell surface polypeptide of a dendritic cell.
28. (Original) The composition of claim 1, wherein said ligand for a cell surface polypeptide is a ligand for a mouse GM-CSF receptor.

29. (Cancelled)
30. (Original) The composition of claim 1, wherein said ligand for a cell surface polypeptide comprises a mouse GM-CSF.
31. (Original) The composition of claim 1, wherein said ligand for a cell surface polypeptide is a ligand for a human GM-CSF receptor.
32. (Cancelled)
33. (Original) The composition of claim 1, wherein said ligand for a cell surface polypeptide comprises a human GM-CSF.
34. (Withdrawn) The composition of claim 1, wherein said ligand for a cell surface polypeptide is a ligand for a receptor for an interleukin.
35. (Withdrawn) The composition of claim 1, wherein said ligand for a cell surface polypeptide is a ligand for a receptor for a mouse interleukin.
36. (Withdrawn) The composition of claim 1, wherein said ligand for a cell surface polypeptide is a ligand for a receptor for a human interleukin.
37. (Withdrawn) The composition of claim 34, wherein said interleukin is chosen from the group: IL-1, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-10, IL-12, IL-13, IL-14, IL-15, IL-16, IL-17, IL-18, IL-19, IL-20, IL-21, IL-22, IL-23, IL-24, IL-25.
38. (Withdrawn) The composition of claim 34, wherein said ligand for a cell surface polypeptide comprises at least about 5 contiguous amino acids of an interleukin.
39. (Withdrawn) The composition of claim 38, wherein said interleukin is chosen from the group: IL-1, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-10, IL-12, IL-13, IL-14, IL-15, IL-16, IL-17, IL-18, IL-19, IL-20, IL-21, IL-22, IL-23, IL-24, IL-25.
40. (Withdrawn) The composition of claim 34, wherein said ligand for a cell surface polypeptide comprises an interleukin.

41. (Withdrawn) The composition of claim 40, wherein said interleukin is chosen from the group: IL-1, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-10, IL-12, IL-13, IL-14, IL-15, IL-16, IL-17, IL-18, IL-19, IL-20, IL-21, IL-22, IL-23, IL-24, IL-25.
42. (Withdrawn) The composition of claim 1, wherein said ligand for a cell surface polypeptide is a ligand for a receptor for a chemokine.
43. (Withdrawn) The composition of claim 1, wherein said ligand for a cell surface polypeptide is a ligand for a receptor for a mouse chemokine.
44. (Withdrawn) The composition of claim 1, wherein said ligand for a cell surface polypeptide is a ligand for a receptor for a human chemokine.
45. (Withdrawn) The composition of claim 42, wherein said chemokine is a C-C cytokine.
46. (Withdrawn) The composition of claim 42, wherein said chemokine is a C-X-C cytokine.
47. (Withdrawn) The composition of claim 42, wherein said cell surface polypeptide is chosen from the group: CXCR-1, CXCR-2, CXCR-3, CXCR-4, CCR-1, CCR-2, CCR-3, CCR-4, CCR-5, CCR-6, CCR-7, CCR-8.
48. (Withdrawn) The composition of claim 42, wherein said chemokine is chosen from the group: 9E3, AMCF, beta-thromboglobulin, ENA-78, eotaxin, eotaxin-2, IP-10, KC, LIX, mig, MGSA, mob-1, NAP-2, NAP-3, NAP-4, PBSF, MGSA, mouse KC, MIP-2, MIP-1 alpha, NAP-2, ENA-78, GCP-2, ACT-2, C10, CCF18, DC-CK1, ELC, Exodus, FIC, GDCF, GDCF-2, HC-21, HCC-1, I-309, JE, LAG-1, MARC, MCAF, MCP-1, MCP-2, MCP-3, MCP-4, MCP-5, MRP-2, RANTES SDF, TARC, ATAC, Ltn, SCM-1, neurotactin.
49. (Withdrawn) The composition of claim 42, wherein said ligand for a cell surface polypeptide comprises at least about 5 contiguous amino acids of a chemokine.
50. (Withdrawn) The composition of claim 49, wherein said chemokine is chosen from the group: 9E3, AMCF, beta-thromboglobulin, ENA-78, eotaxin, eotaxin-2, IP-10, KC, LIX,

mig, MGSA, mob-1, NAP-2, NAP-3, NAP-4, PBSF, MGSA, mouse KC, MIP-2, MIP-1 alpha, NAP-2, ENA-78, GCP-2, ACT-2, C10, CCF18, DC-CK1, ELC, Exodus, FIC, GDCF, GDCF-2, HC-21, HCC-1, I-309, JE, LAG-1, MARC, MCAF, MCP-1, MCP-2, MCP-3, MCP-4, MCP-5, MRP-2, RANTES SDF, TARC, ATAC, Ltn, SCM-1, neurotactin.

51. (Withdrawn) The composition of claim 42, wherein said ligand for a cell surface polypeptide comprises a chemokine.
52. (Withdrawn) The composition of claim 51, wherein said chemokine is chosen from the group: 9E3, AMCF, beta-thromboglobulin, ENA-78, eotaxin, eotaxin-2, IP-10, KC, LIX, mig, MGSA, mob-1, NAP-2, NAP-3, NAP-4, PBSF, MGSA, mouse KC, MIP-2, MIP-1 alpha, NAP-2, ENA-78, GCP-2, ACT-2, C10, CCF18, DC-CK1, ELC, Exodus, FIC, GDCF, GDCF-2, HC-21, HCC-1, I-309, JE, LAG-1, MARC, MCAF, MCP-1, MCP-2, MCP-3, MCP-4, MCP-5, MRP-2, RANTES SDF, TARC, ATAC, Ltn, SCM-1, neurotactin.
53. (Withdrawn) The composition claim 1, wherein said ligand for a cell surface polypeptide is a ligand for a receptor for an interferon.
54. (Withdrawn) The composition of claim 1, wherein said ligand for a cell surface polypeptide is a ligand for a receptor for a mouse interferon.
55. (Withdrawn) The composition of claim 1, wherein said ligand for a cell surface polypeptide is a ligand for a receptor for a human interferon.
56. (Withdrawn) The composition of claim 53, wherein said interferon is chosen from the group: an interferon-alpha, an interferon-beta, an interferon gamma.
57. (Withdrawn) The composition of claim 53, wherein said ligand for a cell surface polypeptide comprises at least about 5 contiguous amino acids of an interferon.
58. (Withdrawn) The composition of claim 57, wherein said interferon is chosen from the group: an interferon-alpha, an interferon-beta, an interferon gamma.

59. (Withdrawn) The composition of claim 53, wherein said ligand for a cell surface polypeptide comprises an interferon.
60. (Withdrawn) The composition of claim 59, wherein said interferon is chosen from the group: an interferon-alpha, an interferon-beta, an interferon gamma.
61. (Withdrawn) The composition of claim 1, wherein said ligand for a cell surface polypeptide is a ligand for a mouse TNF-alpha receptor.
62. (Withdrawn) The composition of claim 1, wherein said ligand for a cell surface polypeptide comprises at least about five contiguous amino acids of a mouse TNF-alpha.
63. (Withdrawn) The composition of claim 1, wherein said ligand for a cell surface polypeptide comprises a mouse TNF-alpha.
64. (Withdrawn) The composition of claim 1, wherein said ligand for a cell surface polypeptide is a ligand for a human TNF-alpha receptor.
65. (Withdrawn) The composition of claim 1, wherein said ligand for a cell surface polypeptide comprises at least about five contiguous amino acids of a human TNF-alpha.
66. (Withdrawn) The composition of claim 1, wherein said ligand for a cell surface polypeptide comprises a human TNF-alpha.
67. (Withdrawn) The composition of claim 1, wherein said ligand for a cell surface polypeptide is a ligand for a mouse flt-3 receptor.
68. (Withdrawn) The composition of claim 1, wherein said ligand for a cell surface polypeptide comprises at least about five contiguous amino acids of a mouse flt-3.
69. (Withdrawn) The composition of claim 1, wherein said ligand for a cell surface polypeptide comprises a mouse flt-3.
70. (Withdrawn) The composition of claim 1, wherein said ligand for a cell surface polypeptide is a ligand for a human flt-3 receptor.

71. (Withdrawn) The composition of claim 1, wherein said ligand for a cell surface polypeptide comprises at least about five contiguous amino acids of a human flt-3.
72. (Original) The composition of claim 1, wherein said ligand for a cell surface polypeptide comprises a human flt-3.
73. (Original) The composition of claim 1, wherein said fusion polypeptide further comprises a linker interposed between said first and second amino acid sequences.
74. (Original) The composition of claim 73, wherein said linker has the formula $(\text{Gly}_x\text{Ser})_n$, wherein n is an integer between 1 and 15, and x is an integer between 1 and 10.
75. (Original) The composition of claim 1, which comprises said fusion polypeptide bound to a carbohydrate on said antigen bearing target.
76. (Original) The composition of claim 1, in which at least some of said fusion polypeptide is not bound to said antigen bearing target.
77. (Original) The composition of claim 1, wherein said antigen bearing target is a cell and said composition comprises said fusion polypeptide bound to a carbohydrate on the surface of said cell.